CERT 42-05 October 21, 2005 PUBLIC NOTICE

S. C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT COASTAL ZONE MANAGEMENT CONSISTENCY CERTIFICATION

In accordance with the S. C. Coastal Zone Management Act of 1977, as amended, Chapter V, S. C. Coastal Zone Management Program Document and the S. C. Administrative Procedures Act, the following projects have been received for determination of consistency with the S. C. Coastal Zone Management Program. Information on the Projects is available for public inspection at the:

Office of Ocean and Coastal Resource Management S. C. Department of Health and Environmental Control 1362 McMillan Avenue, Suite 400 Charleston, South Carolina 29405

Comments must be received within ten days of the date of this public notice by October 31 2005. The following projects are listed by project name or applicant, location, type of activity, type of permit, and permitting agency (see attached list of abbreviations and keys):

Beaufort County

Palmetto Storage of the Lowcountry, SCDHEC# 22922, SW# 07-05-10-05, TMS# R610-036-000-0387-0000, located at the intersection of Gibbet Road and Estate Drive, Bluffton, OCRM (SW)
Oldfield-Plat 11B, SCDHEC# 23064, SW# 07-05-10-06, TMS# R603-008-000-0005-0000, WW, SCDHEC# 23064/53539, located on SC Highway 170 in the Oldfield Community, OCRM (SW) (WW)
Maiden Lane Utility Extension, SCDHEC# 22982/53515, located between Maiden Lane and Lawton Street, Bluffton, OCRM (WW)

Berkeley County

Liberty Hall Plantation, Phase 10A, SCDHEC# 23062, SW# 08-05-10-08, TMS# 235-00-00-012, WW, SCDHEC# 23062/53537, WS, SCDHEC# 23062/53538, located on Liberty Hall Road, Goose Creek, OCRM (SW) (WW/WS)

Charleston County

University Park, Phase 4, SCDHEC# 23082, SW# 10-05-10-08, TMS# 486-14-00-001, 486-11-00-047, 021, 028, & 029, WS, SCDHEC# 23082/53540, located on Achievers Court, and Stadium Court, North Charleston, OCRM (SW) (WS)

Palmetto Place Townhomes, SCDHEC# 23102, SW# 10-05-10-09, TMS# 379-00-00-065, located off of Gahagan Road, Summerville, OCRM (SW) This project is proposed to impact 0.695 acres of federally non-jurisdictional wetlands. These proposed impacts require approval under the SCCZM program. This plan will fill 0.217 acres and 0.478 acres for a total impact of 0.695 acres. Mitigation will be provided for these proposed impacts by purchasing 5.3 credits from the Pigeon Pond Mitigation Bank.

Horry County

- Clearwater Lakes, Phase II, SCDHEC# 21303, SW# 26-05-08-11, TMS# 191-00-01-216, located within the Surfside Beach Club located south of Highway 544 and east of US Highway 17 By-Pass, Surfside Beach, OCRM (SW)
- Rehabilitation of Taxiway J. Apron Rehab and Expansion, SCDHEC# 22883, SW# 26-05-08-13, TMS# 180-00-02-009, located within the Myrtle Beach International Airport between Highway 17 Business and 17 Bypass, Myrtle Beach, OCRM (SW)
- Grande Crescent, Phase 1C, SCDHEC# 22064, SW# 26-05-09-13, TMS# 172-00-03-012, located at the intersection of Dick Scobee and Ronald McNair, Myrtle Beach, OCRM (SW)
- Grande Crescent, Phase 1D, SCDHEC# 22102, SW# 26-05-09-15, TMS# portion of 172-00-03-012, located at the intersection of Dick Scobee and Ronald McNair, Myrtle Beach, OCRM (SW)
- Pacific Beachware, SCDHEC# 22422, SW# 26-05-09-30, TMS# 180-00-01-0009, located on Highway 17 Business, Myrtle Beach, OCRM (SW)
- Marshall Properties One, LLC-Commercial/Retail/Office Center, SCDHEC# 22525, SW# 26-05-09-35, TMS# 130-00-01-137, located along Sea Mountain Highway and Pecan Street, Little River, OCRM (SW)
- Community Life Center (for St. Andrews Church) SCDHEC# 22882, SW# 26-05-10-12, TMS# 173-16-13-001-003, 009, & 013, located on US 17 Business, between 36th & 37th Avenue North, Myrtle Beach, OCRM (SW)
- South Ocean Boulevard 36th Drainage Improvement, SCDHEC# 22942, SW# 26-05-10-14, TMS# 186-00, located on South Ocean Boulevard, just south of the entrance to Springmaid Beach, Myrtle Beach, OCRM (SW)
- A&T Self Storage, SCDHEC# 23002, SW# 26-05-10-15, TMS# 130-00-04-020, located on Highway 17 north and Grapevine Lane, Little River, OCRM (SW)

AGENCIES ABBREVIATIONS

BCDCOG Berkeley, Charleston, Dorchester Council of Governments

BCWSA Berkeley County Water and Sanitation Authority
EQC Environmental Quality Control (SCDHEC)

DCWSC Dorchester County Water and Sewer Commission

GCWSD Georgetown County Water and Sewer District

GSWSA Grand Strand WSA

LCG Lowcountry Council of Governments
OCRM Ocean and Coastal Resource Management

BCB Budget and Control Board

FBPWD Folly Beach Public Works Department

GCPW Goose Creek Public Works

SCDHEC S. C. Department of Health and Environmental Control

SCDNR S. C. Department of Natural Resources SCDOT S. C. Department of Transportation

SCGO S. C. Governor's Office SCPSA S. C. Public Service Authority

SCPW Summerville CPW USAF U. S. Air Force

USACOE U. S. Army Corps of Engineers
USDA U. S. Department of Agriculture
USDE U. S. Department of Energy

USDHUD U. S. Department of Housing and Urban Development

USDOT
USFHA
U. S. Department of Transportation
USFHA
U. S. Farmers Home Administration
USFWS
U. S. Fish and Wildlife Service

USFS U. S. Forest Service

USICC U. S. Interstate Commerce Commission

USMC U. S. Marine Corps
USN U. S. Navy
WCOG Waccamaw COG

MPWWSC Mount Pleasant Water Works and Sewer Commission

MCCPW Moncks Corner CPW

PERMITS AND OTHER ABBREVIATIONS

404 placement of dredged or fill material in wetlands

AllWW Atlantic Intracoastal Waterway
AMP archaeological master plan

A-95 grant review form

AQ air quality

COG council of governments

CPW commissioners of public works

DMP dock master plan
FC federal consistency
GR misc. grant review
LF landfill

ND landfill no discharge

NWP nation wide permit
OTHER misc, permit, grant.

OTHER misc. permit, grant, or plan PER preliminary engineering report

S/D subdivision

SCNW South Carolina Navigable Waters

SW stormwater

UST underground storage tank WMP wetland master plan

WS water supply

WSA water and sewer authority

WW wastewater

WTP wastewater treatment plant

SPECIAL NOTES

- *DMPs Dock Master Plans OCRM is reviewing the listed DMPs for planning purposes only. Permitting decisions will occur when future dock applications are processed by OCRM for individual property owners. This document is used as a planning tool it is not subject to the appeal. OCRM welcomes comments from the public on these planning documents.
- **WMPs Wetland Master Plans OCRM is reviewing the listed WMPs for planning purposes only. Permitting decisions will occur when future applications are processed by OCRM, which include impacts to freshwater wetlands. This document is used as a planning tool; it is not subject to appeal. OCRM welcomes comments from the public on these planning documents.
- ***SWMPs Stormwater Master Plans OCRM is reviewing the listed SWMPs for planning purposes only. Permitting decisions will occur when future applications are processed by OCRM. OCRM welcomes comments from the public on these planning documents.
- ****PERs Preliminary Engineering Reports OCRM is reviewing the lists PERs for the purpose of commenting to other sections of DHEC concerning this document. OCRM will not be issuing a coastal zone consistency certification at this time but providing comments. If this proposal moves forward to the permitting process, OCRM would at that time do a full coastal zone consistency review.



STANDARD APPLICATION FORM FOR LAND DISTURBING ACTIVITIES STORMWATER PERMITTING

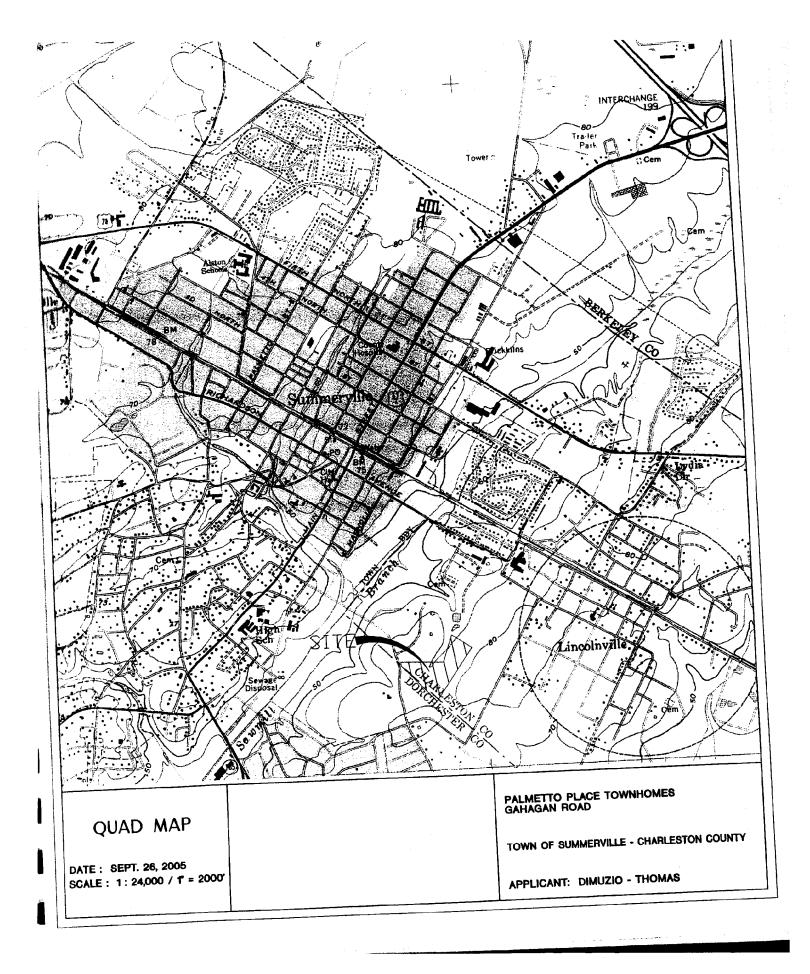
SECTION 1 - Administrative Information

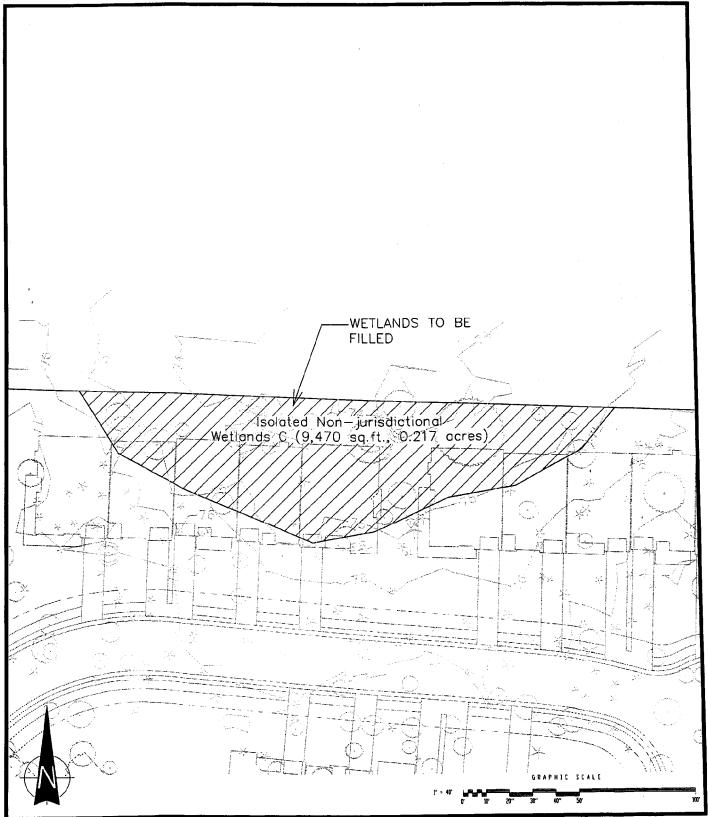
Date	(10 Be Completed By All Applicants	s)	OCT 0 3 2005	
	e: (MM/DD/YYYY) _09/23/2005	<u> </u>	DHEC-OCRM	
	Facility or project name: Palmetto Place Town	homes	CHARLESTON OFFICE	
	County: Charleston	City/Tov	wn: Summerville	
	Location (also shown on location map): Off of C	Sahagan Road		
	Latitude: 33 Deg. 00' 27" N	Longitude: 80 De	eg. 10' 11" W	
	Tax map #: 379-00-00-065	USGS Quad N	lame: Summerville	
	Nearest receiving water body: Saw Mill Branch			
	Distance to nearest receiving water body: 0.52	miles		
	Ultimate receiving water body: Ashley River			
	Are there any wetlands located on the property	? ves If ves, have	e they been delineated? ves	
3.	Are there any wetlands located on the property Are any federally jurisdictional wetlands being it	mpacted by this project? no	o If yes, has a Corps permit be	en issued?
	Corps permit #: Are any feder	ally non-jurisdictional (sta	ate) wetlands being impacted by	this project? ves
	What is the total acreage of federally jurisdiction	nal and state wetland impa	acts? 0.00 (Juris.) 0.70	(Non-juris
	On an 8 1/2" X 11" copy of a site plan indicate th			
	,,	·	, .	
	Are there any existing flooding problems in the	downstream watershed? _	no	
	D-1		<u>_</u>	
	Property owner of record: Palmetto P.	lace Developer	rs, Inc.	7: 00 100
	Address: 126 Seven Farms Rd. Suite 110	City: Charleston	State: South Carolina	Zip: <u>29492</u>
	Phone (day): <u>(843) 747-1200</u> (r	light):	(fax): <u>(843) /4/-10/0</u>	
6.	Person financially responsible for the land distu	thing activity		
	(if different than above)	ibing activity. <u>same as ab</u>	oove	
	(il dilieletit tilati above)	Cit	States	7in:
	Address: (n	_ City:	State	zip
	Phone (day):(n	ignt):	(rax):	
	Agent or dawto-day contact (if applicable):			
	Address.	City:	State:	Zin.
	Agent or day-to-day contact (if applicable): Address:	ight):	(fax):	<u>-</u> 'P'
	(1.	.9,.	(1000).	
	Plan preparer, engineer, or technical represe	ntative: HGBD, Inc. / Len	nv White	
	Address: PO Box 1771	City: Mount Pleasant	State: South Carolina	Zip:29465
	Address: <u>PO Box 1771</u> Phone (day): <u>(843) 849-7500</u> (n	ight):	(fax): (843) 849-7502	
	Contractor or operator (if known): Unknown a	t this time		
	Address:	_ City:	State:	Zip:
	Phone (day):(n	ight):	(fax):	
	Contractor or operator (if known): Unknown a Address:			
•	Phone (day): (n Size, total (acres): <u>18.77</u>			
	Size, total (acres): <u>18.77</u>	Surface area of land	disturbance (acres): 8,33	
		Surface area of land	disturbance (acres): 8,33	
	Size, total (acres): <u>18.77</u> Start date:(<i>MM/DD/YYYY</i>) <u>11/21/2005</u>	Surface area of land o	disturbance (acres): <u>8.33</u> late:(<i>MM/DD/YYYY</i>) <u>11/20/2006</u>	
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DHEC 3306 (08/2003)

13. For this form to be complete, the applicant must sign item 23.

4.	Description of control plan to be used during construction	on. (Must also be shown on plan sheets or sketch drawing):		
	This plan must be prepared by a professional e	ngineer, tier b land surveyor, or a landscape architect		
	A A A A A A B A B A A A A A A A A A A A	and the second s		
5.	Fee; \$125 NPDES General Permit coverage fee applies			
3.	SIC code:	Is the site located on Indian lands?		
7.	For this form to be complete, the applicant must sign its	ems 23 and 24 and the plan preparer must sign item 25.		
EC	TION 2C - For Projects Disturbing More Than Two (2)) Acres and/or Projects That Are a Part of a Larger Common		
8.	Is this part of a larger common plan for development or sa	ale? no		
, . .	If yes, what is the state permit number for the previous ap	proval?		
	What is the NPDES permit coverage number? Has a Notice of Termination (NOT) been submitted for the	e NPDES permit coverage?		
		•		
9.	The stormwater management and sediment and erosion of engineer, tier biland surveyor, or a landscape architect.	control plan for projects of this size must be prepared by a profession		
0.	SIC code: 1522 Residential construction, nec.	is the site located on Indian lands? no		
1.	Type of project and fees (please choose the type of activ			
1.	a. Federal - State - Local - School (exempt from State fees, \$125 NPDES fee applies)			
	h Industrial - Commercial - Residential - Part of a larger common plan for development or sale			
		N. L. C		
		State fee per project PLUS \$125 NPDES permit fee.]		
	Project Type: Residential	State fee per project <i>PLUS</i> \$125 NPDES permit fee.] Fee: \$958.00		
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3.	Project Type: Residential For this form to be complete, the applicant must sign items: CTION 3 - Signatures and Certifications I hereby certify that all land disturbing construction and pursuant to and in keeping with the terms and condition will be assigned to the project for day-to-day control. Itemvironmental Control and/or the local implementing a on site inspections during the course of construction at the land disturbing activity. Milton Thomas Printed Name Owner/Person Financially Responsible I certify under penalty of law that I have personally examplication and all attachments and that, based on my information contained in the application, I believe that are significant penalties for submitting false information. Milton Thomas	Fee: \$958.00 23 and 24 and the plan preparer must sign item 25. dissociated activity pertaining to this site shall be accomplished ons of the approved plans. I also certify that a responsible person I hereby grant authorization to the Department of Health and agency the right of access to the site at all times for the purpose of and to perform maintenance inspections following the completion of Signature Owner/Person Financially Responsible amined and am familiar with the information submitted in this y inquiry of those persons immediately responsible for obtaining the the information is true, accurate and complete. I am aware that the information the possibility of fine and imprisonment.		
3. 4.	Project Type: Residential For this form to be complete, the applicant must sign items: CTION 3 - Signatures and Certifications I hereby certify that all land disturbing construction and pursuant to and in keeping with the terms and condition will be assigned to the project for day-to-day control. Itemvironmental Control and/or the local implementing a on site inspections during the course of construction at the land disturbing activity. Milton Thomas Printed Name Owner/Person Financially Responsible I certify under penalty of law that I have personally examplication and all attachments and that, based on my information contained in the application, I believe that are significant penalties for submitting false information. Milton Thomas Printed Name Owner/Person Financially Responsible Designer Certification - One copy of the plans, all spent herewith submitted and made a part of this application.	Fee: \$958.00 23 and 24 and the plan preparer must sign item 25. d associated activity pertaining to this site shall be accomplished ons of the approved plans. I also certify that a responsible person I hereby grant authorization to the Department of Health and agency the right of access to the site at all times for the purpose of and to perform maintenance inspections following the completion of Signature Owner/Person Financially Responsible for obtaining the information is true accurate and complete. I am aware that the information is true accurate and complete. I am aware that the information is true accurate and complete. I am aware that the on, including the possibility of fine and imprisonment. Signature Owner/Person Financially Responsible concident and supporting calculations, forms, and reports are the design of the system. Further, I certify to the best of my knowled themselved in the Code of Laws of SC, 1976 as the system of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as the system.		
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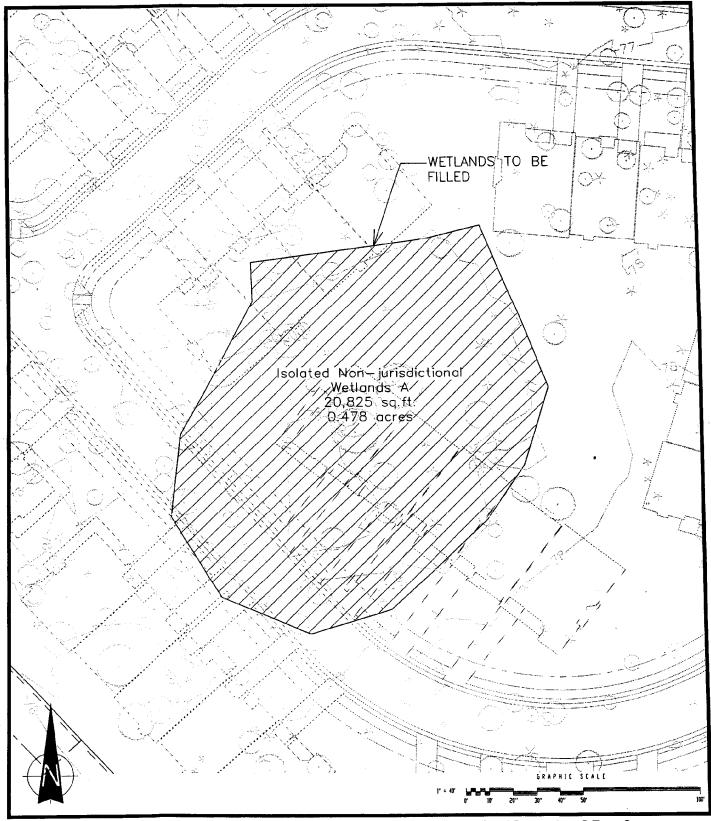
PALMETTO PLACE TOWNHOMES PALMETTO PLACE DEVELOPERS SUMMERVILLE, SC

SHEET NO.: 2 OF 2

SCALE: 1" = 40' DATE: 17 OCTOBER 2005 JOB NO.: 405116106



WETLANDS EXHIBIT



PALMETTO PLACE TOWNHOMES PALMETTO PLACE DEVELOPERS SUMMERVILLE, SC SHEET NO.: 1 OF 2

SCALE: 1" = 40'

DATE: 17 OCTOBER 2005 JOB NO.: 405116106



WETLANDS EXHIBIT



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

PUBLIC NOTICE

BEACHFRONT GENERAL PERMITS

OCRM is renewing the following General Permits an additional five years, until December 31, 2010:

GP-90-A: Underground and Overhead Water, Sewer, Gas, Electrical, Telephone and

Cable Service Lines

GP-90-B: Drainage Structures

GP-90-C: Landscaping and Fill for Landscaping

GP-90-D: Fences, Lighting, Trash Receptacles, Sidewalks, and Signs

GP-90-E: Non-Attached Decks

GP-90-F: Sand Fences, Minor Beach Renourishment, Dune Revegetation

GP-90-G: Driveways and Parking Lots

These seven beachfront general permits were originally issued in 1990 and have been reauthorized every five years since then. The General Permit process is designed to streamline the permitting process for certain beachfront activities explicitly authorized under the Beachfront Management Act. All applications submitted for these General Permits will be processed under OCRM Regulation 30-17, Application Procedures for General Permits. Copies of these permits are attached for informational purposes only.

October 21, 2005

SCDHEC-OCRM GENERAL PERMIT GP-90-A

WORK:

Installation or Repair of Underground and Overhead Water, Sewer, Gas, Electrical, Telephone Lines, and Cable Service Lines.

WHERE:

Within the OCRM 40-year setback zone and landward of the baseline of the counties of Horry, Georgetown, Charleston, Colleton, Beaufort, and Jasper.

DESCRIPTION:

The placement, maintenance, repair, and replacement of service lines is allowed under this general permit provided that the following conditions are met:

- 1. All service lines must be located as far landward as possible on the individual lots of record.
- 2. Lines, junction boxes, poles, and accessory features will be relocated landward as far as possible in the event there is a need for replacement.
- 3. Dunes altered during construction must be reconfigured and revegetated in accordance with OCRM's guidelines.
- 4. All work performed pursuant to this permit must be in compliance with local ordinances governing such work.
- 5. The permittee must obtain a construction placard from OCRM before any work may be performed pursuant to this permit.
- 6. OCRM reserves the right to require an individual permit if, in its discretion, conditions warrant.

SCDHEC-OCRM GENERAL PERMIT GP-90-B

WORK:

Drainage Structures.

WHERE:

Within the OCRM 40-year setback zone and landward of the baseline of the counties of Horry, Georgetown, Charleston, Colleton, Beaufort, and Jasper.

DESCRIPTION:

The placement, maintenance, repair, and replacement of drainage structures is allowed under this general permit provided that the following conditions are met:

- 1. For new construction, the structures are part of a OCRM approved storm water management plan or drainage plan.
- 2. The replacement of drainage structures does not involve an increase in the size of the existing structures.
- 3. Any construction involving drainage structures does not disturb the existing dune and its accompanying vegetation system.
- 4. Provided the drainage structure complies with the local drainage plan for the setback zone.
- 5. No new drainage structures may be placed on the beach only if
 - a) Existing structures are eliminated;
 - b) No feasible alternative exists.
- 6. All work performed pursuant to this permit must be in compliance with all local ordinances governing such work.
- 7. The permittee must obtain a construction placard from OCRM before any work may be performed pursuant to this permit.
- 8. The disturbed areas must be revegetated.
- 9. OCRM reserves the right to require an individual permit if, in its discretion, conditions warrant.

SCDHEC-OCRM GENERAL PERMIT GP-90-C

WORK:

Landscaping

Fill For Landscaping

WHERE:

Seaward of the OCRM 40 year setback line in the counties of Horry, Georgetown, Charleston, Colleton, Beaufort and Jasper.

DESCRIPTION:

The installation of landscape and plant, materials and associated amenities and fill for this landscaping is allowed under this general permit provided the following conditions are met:

- 1. The entire landscaping plan is submitted to and approved by OCRM. No retaining wall that extends below existing grade will be allowed.
- 2. No sand from the beach is used as backfill.
- 3. No native plant material on the frontal dunes is disturbed unless it can be demonstrated the condition of the dune will be improved.
- 4. Only native salt tolerant species may be planted on dunes and must be approved by OCRM staff.
- 5. Adequate measures are taken to contain fill and irrigation run off.
- 6. No leveling of dunes is allowed.
- 7. All work performed pursuant to this general permit must be in compliance with all local ordinances governing such work.
- 8. The permittee must obtain a construction placard from OCRM before any work may be performed under this permit.
- 9. The OCRM reserves the right to require an individual permit if, in its discretion, conditions warrant.

SCDHEC-OCRM GENERAL PERMIT GP-90-D

WORK:

Fences, Lighting, Trash Receptacles (Dumpsters, Etc.), Sidewalks, and Signs.

WHERE:

Seaward of the OCRM 40-year setback line in the counties of Horry, Georgetown, Charleston, Colleton, Beaufort, and Jasper.

DESCRIPTION:

The placement, maintenance, repair, and replacement of fences, lighting, trash receptacles, sidewalks, and signs is allowed under this general permit provided that the following conditions are met:

- 1. Provided construction does not alter or impact in any way existing sand dunes, dune vegetation, or beach areas.
- 2. Provided existing concrete sidewalks attendant to public streets may be replaced within the same footprint.
- 3. Provided trash receptacles (not dumpsters) may be attached to access ways or placed on the beach for a limited period when the local government determines there to be a need for such receptacles.
- 4. Provided signs are attached to attendant structures or mail receptacles or be informational signs deemed necessary by federal, state or local government for public health and safety.
- 5. Provided that no fence can be used or designed as a retaining wall.
- 6. Lighting from landward development that reaches the primary sand dune and beach can seriously disrupt orientation of adult sea turtles, as they attempt to nest on the beach; and, hatchling sea turtles, as they emerge from the nest and attempt to reach the ocean. Light reaching the beach that is bright enough to cast a shadow on a moonless night, can prevent successful reproduction of these threatened and endangered species. Therefore, during the sea turtle nesting and hatching season from May through October, artificial lighting on the beach must be eliminated. Also the following conditions must be met:

GP-90-D Page 2

- A. Floodlighting and pole lighting that illuminate the beach and primary sand dune are prohibited.
- B. Wall mounted lights and other point sources of light, that are visible from the beach must be low intensity and shielded.
- C. Low profile luminaries (low intensity, shielded lights, no greater than 18" high) shall be used in parking lots and other open areas adjacent to the beach. These lights must be positioned so that no light illuminates the beach.
- D. Lighting for dune crosswalks, or any area seaward of the primary dune, shall be used in parking lots and other open areas adjacent to the beach. These lights must be positioned so that no light illuminates the beach.
- E. Temporary security lighting at construction sites shall be mounted no more than fifteen feet above the ground. Illumination from these lights shall be shaded so they do not illuminate the beach or primary sand dune.
- F. Street lights should use low pressure sodium bulbs and be shielded so that no light reaches the primary sand dune and beach area.
- G. Lighting for fishing piers must be handled on a case by case basis, with the applicant submitting a lighting design with the application. These structures must meet the spirit of this ordinance to the maximum extent feasible.
- 7. Provided that all work performed pursuant to this permit must be in compliance with all local ordinances governing such work.
- 8. Provided that the permittee must obtain a construction placard from OCRM before any work may be performed pursuant to this permit.
- 9. OCRM reserves the right to require an individual permit if, in its discretion, conditions warrant.

SCDHEC-OCRM GENERAL PERMIT GP-90-E

WORK:

Non-Attached Decks

WHERE:

Seaward of the OCRM 40 year setback line in the counties of Horry, Georgetown, Charleston, Colleton, Beaufort and Jasper.

DESCRIPTION:

The placement, maintenance and repair, and replacement of decks is allowed under this permit provided that the following conditions are met:

- 1. Provided the structures are constructed of wood.
- 2. Provided the size of any deck(s) does not exceed 144 square feet.
- 3. Provided the dock does not extend seaward of the primary dune or on the active beach.
- 4. Provided there are no more than one of these structures per lot unless a limit of one would cause an unnecessary hardship.
- 5. Provided that if the beach erodes to the point that the structure is located on the active beach, it will be removed or relocated landward by the owner.
- 6. All work performed pursuant to this permit must be in compliance with all local ordinances governing such work.
- 7. The permittee must obtain a construction placard from OCRM before any work may be performed pursuant to this permit.
- 8. OCRM reserves the right to require an individual permit if, in its discretion, conditions warrant.
- 9. Roofs will be allowed.

ATTACHMENTA SCOHEC-OCRM GENERAL PERMIT GP-90-F GP-90-F

WORK:

Sand Fences, Minor Beach Renourishment, Dune Revegeration

WHERE:

Seaward of the OCRM 40 year setback line in the counties of Horry, Georgetown, Charleston, Colleton, Beaufort and Jasper.

DESCRIPTION:

In an effort to provide beachfront property owners with passive, low-cost stabilization methods, this permit is issued to allow for placement, maintenance and repair, and replacement of sand fencing, dune revegetation, and minor renourishment. These methods should not be viewed as erosion control, but rather as enhancement and stabilization techniques. Since a broad beach and a healthy dune provide the best energy 'reffer, these methods will aide in the natural beach process.

Sand Fencing

- A. The fence material is biodegradable.
- B. The fences are installed according to Attachment "A".
- C. The fences are installed in a manner so as not to impede turde nesting. OCRM may at any time have sand fences moved or removed or, in OCRM's opinion, have the potential to impact turde nesting activities.
- D. Provided the fence is placed above the highest wave up rush.
- E. The fencing in no way impedes public access.
- F. The fence is installed in a temporary manner.
- G. If fence material is damaged, debris must be removed from the beach area by the owner in an expeditious manner.
- H. If the fence is judged to be having a detrimental impact by OCRM, it must be removed by the owner.

ATTACHMENT A

Revegetation

Property owners are encouraged to plant vegetation as a means of stabilizing oceanfront dunes. The roots of plant material tend to bind sand to dunes, while plant foliage serves to trap blowing sand.

Suggested plant varieties include, but are not limited to, American beach grass (Ammophila breviligulara), bitter panicum (Panicum anarum), and sea oats (Uniola paniculara).

Vegetation shall be planted in early spring, before May 30th if possible, and should be planted, irrigated and fertilized according to nursery instructions or OCRM's "How to Build A Dune" guidelines. OCRM staff must inspect the site first and establish a need.

Minor Renourishment

Minor renourishment is allowed in an artempt to build and maintain healthy dunes.

- A. Sand must be compatible in size and grain color and from an upland source approved by OCRM staff.
- B. Must be performed between November 1 and April 15.
- C. OCRM staff must inspect the site and establish that there is a need for the project.
- D. Sand which has drifted off the beach and dunes may be returned to the active beach and used to repair gaps in dunes as part of this permit. This may include sand which has accumulated in parking lost, roadways, pool areas, and against buildings.

All projects pursuant to this general permit must be in compliance with local ordinances governing such actions.

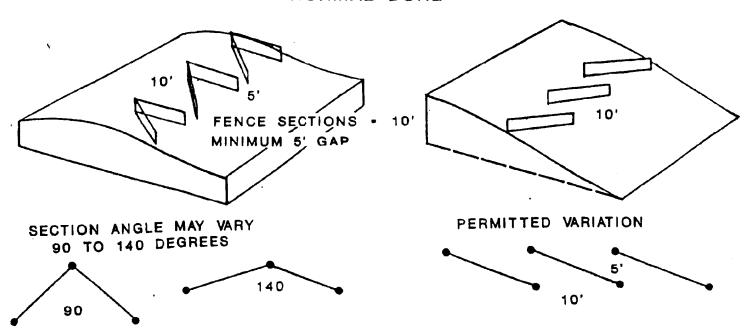
The permittee must obtain a construction place from OCRM before any work can be performed under this permit.

OCRM reserves the right to require an individual permit if, in its discretion, conditions warrant.

SAND FENCING

PERMITTED CONFIGURATIONS OF FENCE TO TRAP WIND-BLOWN SAND

NORMAL DUNE



SCDHEC-OCRM GENERAL PERMIT GP-90-G

WORK:

The Construction or Reconstruction of Drives and Parking Lots

WHERE:

Within the OCRM 40 year setback zone and landward of the baseline Horry, Georgetown, Charleston, Colleton, Beaufort and Jasper.

DESCRIPTION:

The construction or reconstruction of drives and parking lots within the setback area are allowed under this general permit provided the following conditions are met:

- 1. On front row lots, new driveways and/or parking lots shall not extend seaward of habitable structures.
- 2. Reconstruction of existing drives and/or parking lots shall not exceed the footprint of the original drive or parking lot.
- 3. No sand from the beach may be used as foundation material.
- 4. No alteration of the dune or dune vegetation is allowed.
- 5. At OCRM's discretion, a storm water management plan may be required before a construction placard is issued pursuant to this general permit.
- 6. Parking lots of more than ten spaces will require a separate OCRM permit.
- 7. Expansion of parking lots is approved by this general permit provided, the above criteria are met and the completed lot does not exceed ten spaces.
- 8. Provided that the work complies with all local zoning and building codes.
- 9. Provided that the permittee obtains a construction placard from OCRM before any work can be performed under this permit.
- 10. Best Management Practices (BMP's) such as hay bales, silt fences, mulches, or other appropriate means must be used as necessary during the construction phase to prevent erosion to adjacent waters and wetlands. Upon project completion the disturbed areas must be stabilized as soon as possible with grass or other appropriate vegetative cover.
- 11. OCRM reserves the right to require an individual permit if, in its discretion, conditions warrant.



C. Earl Hunter, Commissioner

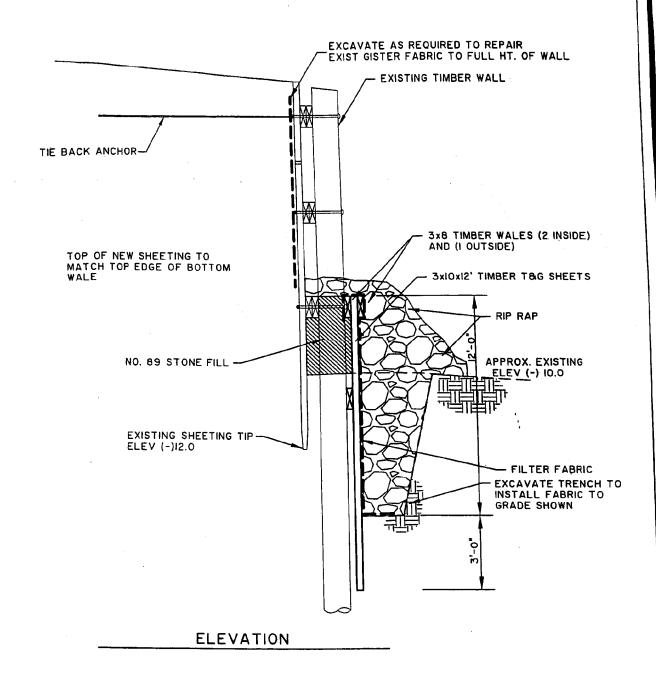
Promoting and protecting the health of the public and the environment.

PUBLIC NOTICE Amendment

The permittee for P/N# 2001-1E-093-P, Kiawah Associates, has requested an amendment to that issued permit. Specifically, the amendment request seeks authorization to install a 12' high by 495' long cut-off wall at face and toe of the existing timber bulkhead. To further minimize erosion, the previously authorized rock revetment will be placed channelward of the proposed cut-off wall. The purpose of the proposed amendment is for erosion control at The Preserve, Phase 5, Kiawah Island, Charleston County, South Carolina.

Comments will be received on this amendment request until October 31, 2005. For further information please contact the project manager for this activity, Fred Mallett, at 843-747-4323 ext. 119.

October 21, 2005



REVISION

N:\14163\dwg\buikhead permit\modifications\Permit revision exhibit.dwg - Oct 13, 2005 - 11:08:57 AM



935 HOUSTON NORTHCUTT
BOULEVARD
MOUNT PLEASANT, SC 29464
(843)849-0200
SAVANNAH, GA
MYRTLE BEACH, SC

ELEVATION

COMMUNITY DOCK THE PRESERVE PH. 5 PROPOSED ACTIVITY:
MODIFICATIONS TO TIMBER BULKHEAD
COUNTY: CHARLESTON
APPLICANT: KIAWAH RESORT ASSOCIATES, LP
OCTOBER 13, 2005

P/N# 2001-IE-093-P

NOT TO SCALE

SHEET I OF I

THOMAS & HUTTON ENGINEERING CO.

935 HOUSTON NORTHCUTT BOULEVARD
POST OFFICE BOX 1522
MOUNT PLEASANT, SOUTH CAROLINA 29465-1522
TELEPHONE (843)849-0200
FAX (843)849-0203

October 13, 2005

RECEIVED

OCT 1 4 2005

DHEC-OCRM

Mr. Curtis Joyner Manager, Critical Area Section OCRM 1362 McMillan Avenue, Suite 400 Charleston, SC 29405

Re:

The Preserve Phase 5 Bulkhead Kiawah Island P/N 2001-1E-093 J - 14163.300

Dear Mr. Joyner:

On behalf of the owner, we are hereby requesting a revision to the original permit that granted a bulkhead to be constructed at the referenced project. This request is to place a cut-off wall adjacent to creek side toe of the existing bulkhead. This cut-off wall would be surrounded by the rip-rap with filter cloth on the creek side of the bulkhead permitted by the referenced permit. This is to minimize further erosion at the base of the wall. The site was visited by Mr. Fred Mallett of your office and me on October 13, 2005, where we noticed evidence of continued aggressive scour of the creek bed at the toe of the bulkhead and additional scour at the ends of the bulkhead. The creek's tidal flow has aggressively scoured the material away from the base of the wall to such an extreme that the designed reveal of 8'-0" has now become as much as 16'-9". We understand that this, as all coastal erosion structures, will require maintenance including the addition of rip-rap from time to time as required to maintain the scour protection and that this maintenance is allowed without additional permitting.



C. Earl Hunter, Commissioner Promoting and protecting the health of the public and the environment.

Notification of Public Notice

Enclosed are public notices issued by the SCDHEC Office of Ocean and Coastal Resource Management. All interested parties are allowed 30 days for major developments and 15 days for minor developments after receipt of the public notices to file written comments to the OCRM pertaining to the applications. Only those comments received within this period must be reviewed by the OCRM in processing the permit application. Any person wishing notification of the initial OCRM decision on any specific public notice must make written request within the designated review period for that public notice.

APPLICANT

PUBLIC NOTICE NUMBER

SUSPENSE DATE

James Pearson John McNamara OCRM-05-297-R OCRM-05-949 November 5, 2005 November 5, 2005

October 21, 2005

SCDHEC OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT PERMIT APPLICATION PUBLIC NOTICE

October 21, 2005

Permit Number:

OCRM-05-297-R

Permit ID:

53525

The SCDHEC Office of Ocean and Coastal Resource Management has received an application for a permit for the alteration of a critical area. This application was submitted pursuant to the Coastal Zone Management Act (Act 123) of the 1977 South Carolina General Assembly. The application, in brief, is described as follows:

APPLICANT:

James M Pearson

2012 Ashburton Way

Mount Pleasant, SC 29466

LOCATION:

On and adjacent to Toomer Creek at 3806 Adrian Way, Melrose at Parkwest, Mount

Pleasant, Charleston County, South Carolina.

TMS#: 594-12-00-226.

WORK:

The work as proposed and shown on the attached drawings consists of constructing a dock. Specifically, the applicant seeks to construct a 4' x 294' walkway, with handrails, leading to a 6' x 8' covered pierhead with handrails, storage box, benches, and sink. Ebbside, an 8' x 14' floating dock will be accessed by a 3' x 16' ramp. Floodside, a 12' x 12' four-pile boatlift is proposed. The applicant is also seeking approval for a set of steps to access a small spit of highland off the left side of the walkway. The work as described is for the applicant's private

recreational use.

This public notice is being distributed to all known interested persons and agencies to assist in developing facts on which a decision by OCRM can be based. Comments concerning the proposed work should be submitted in writing, setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition.

The decision to issue or deny a permit will be based on the individual merits of the application, the policies specified in the South Carolina Coastal Zone Management Act, and the considerations outlined in the State of South Carolina Coastal Zone Management Program. Interested parties who wish to be notified of final permit action must notify OCRM in writing of this request.

To assure review by OCRM, comments regarding this application must be received by OCRM on or before November 5, 2005. For further information please contact the project manager for this activity, Tess Rodgers at 843-747-4323 ext. 116.

PLEASE REPLY TO:

SCDHEC OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT 1362 McMillan Avenue, Suite 400 Charleston, South Carolina 29405

Please refer to P/N# OCRM-05-297-R

gers, Regulatory Cooldinator



EXPLOSING PROPERTY LIDIS

PERMIT APPLICATION DRAWING

S. C. Department of Health and Environmental Control
Office of Ocean and Coastal Resource Management
Charleston Beaufort Myrthe Beach

Charteston E 744-5838 8 744-5847(fax) 84

846-9480 846-9810(fax)

Flood

626-7217 626-2381(fax)

Ebb



DOCK CONSISTS OF:

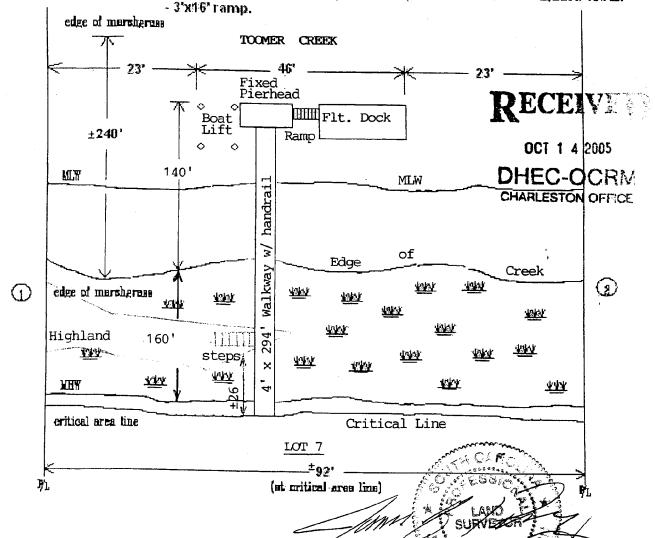
- 4'x:294 walkway w/handrails.

- 6'x8' fixed pierhead (w/ roof) w/handrails, bench seat, sink, water tap, light pole, storage box.

- 8'x14' floating dock (ebb side).

- 12'x12' (4) piling boat lift (flood side).

Expended Property Line



APPLICANT James Pearson
ACTIVITY

P/N#

Private Recreational Dock 594–12–00–226 LOCATION: 3806 Adrian Way

DRAWING NOT TO SCALE

Mt Pleasant, SC 29466

COUNTY: Charleston

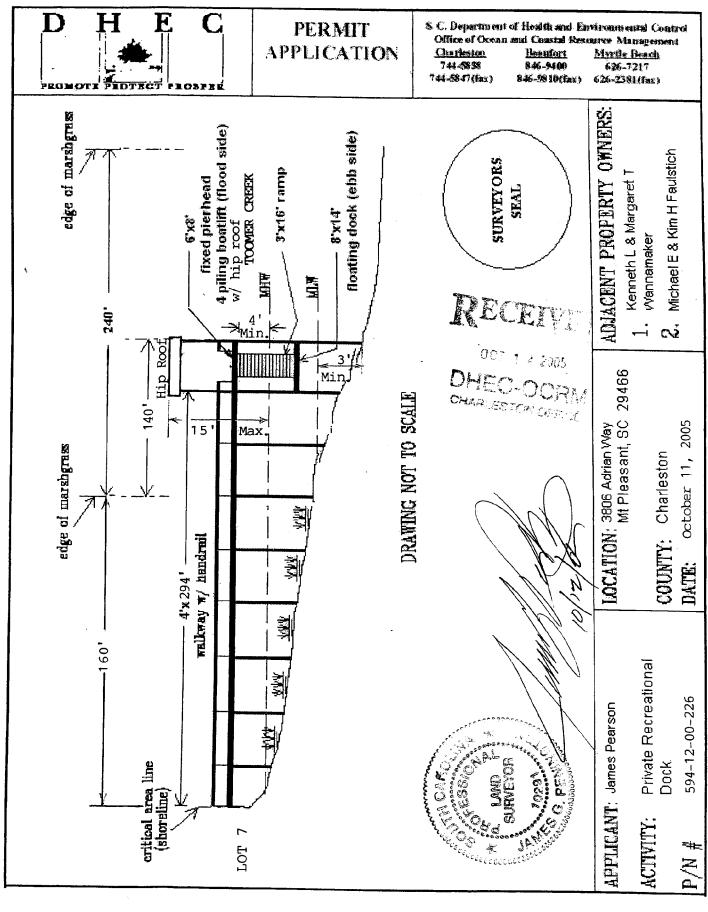
DATE: October 11, 2005

ADJACENT PROPERTY

1. Kenneth L & Margaret T Wannamaker

2. Michael E & Kim H Faulstich

OCRM-05-297-R



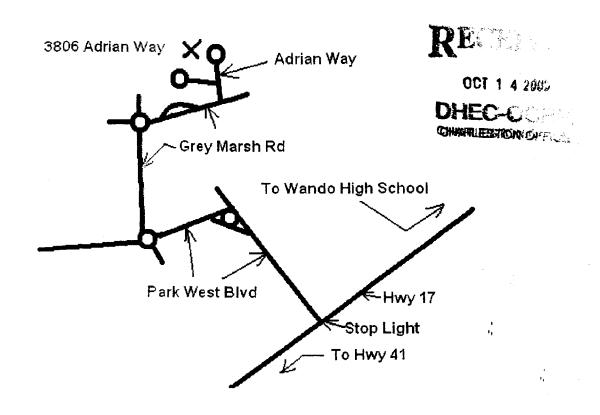
U-TBC-SU MAJU

Directions to:

3806 Adrian Way

Mt. Pleasant, SC 29466

Park West Subdivision, Melrose section



17

1: Start out going NORTH on US-17 N toward PARK WEST SUBDIVISION.

0.1 miles

 \bigoplus

2: Turn LEFT onto PARK WEST BLVD. Pass through 2 roundabouts.

2.0 miles



3: Enter next roundabout and take 1st exit onto GREYMARSH RD. Pass through 1 roundabout.

1.4 miles

 \Leftrightarrow

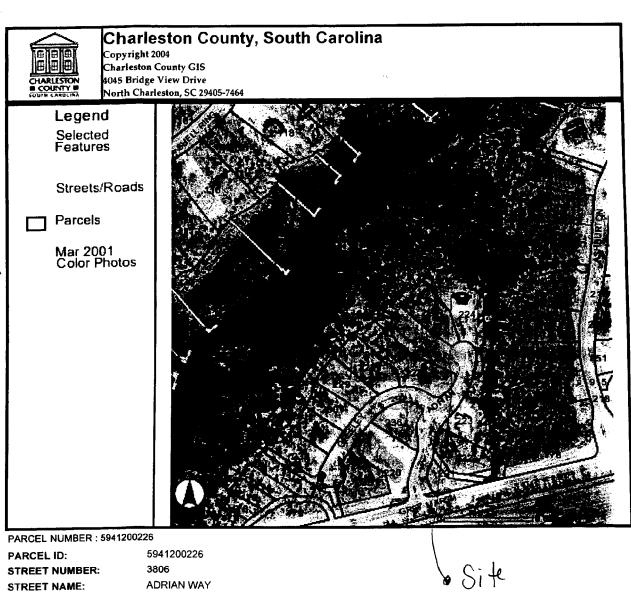
4: Turn LEFT onto ADRIAN WAY.

<0.1 miles

END "

5: End at 3806 Adrian Way Mt Pleasant, SC 29466-7000, US

OCRM-05-297-R



PROP UNIT:

PROP CITY:

PROP ZIP:

29466

SITE NAME:

GENERAL USE:

VCR

SUBDIVISION:

MELROSE AT PARKWEST PHASE III

LEGAL DESCRIPTION:

LOT 7 0.48

LGL HI ACRES:

LGL MAR ACRES:

0

LGL WATER ACRES:

0

LGL SWAMP ACRES:

0 0.48

LGL TOTAL ACRES: TAX DISTRICT:

21

JURISDICTION:

CTA

PLAT BOOK:

EE-400

OWNER ON 1ST: OWNER2 ON 1ST: SHEI GEORGE H SEHI JEANETTE M

CURRENT OWNER1:

PEARSON JAMES M

SCDHEC OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT PERMIT APPLICATION PUBLIC NOTICE

October 21, 2005

Permit Number:

OCRM-05-949

Permit ID:

53480

The SCDHEC Office of Ocean and Coastal Resource Management has received an application for a permit for the alteration of a critical area. This application was submitted pursuant to the Coastal Zone Management Act (Act 123) of the 1977 South Carolina General Assembly. The application, in brief, is described as follows:

APPLICANT:

John F McNamara

C/o Forrest F Baughman

P O Box 330

Bluffton SC 29910

LOCATION:

On and adjacent to Chechessee Creek at 39 John Cochran Circle, Okatie, Beaufort County,

South Carolina.

TMS#: R600-010-000-0082-0000.

WORK:

The work as proposed consists of making additions to an existing private dock. The applicant proposes to add a 3'x24' ramp to the right of an existing pierhead leading to a 10'x20' floating dock. On the shoreward side of the float will be an 8'x16' kayak float. The purpose for the dock additions is for the property owner's private, recreational and joint use.

This public notice is being distributed to all known interested persons and agencies to assist in developing facts on which a decision by OCRM can be based. Comments concerning the proposed work should be submitted in writing, setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition.

The decision to issue or deny a permit will be based on the individual merits of the application, the policies specified in the South Carolina Coastal Zone Management Act, and the considerations outlined in the State of South Carolina Coastal Zone Management Program. Interested parties who wish to be notified of final permit action must notify OCRM in writing of this request.

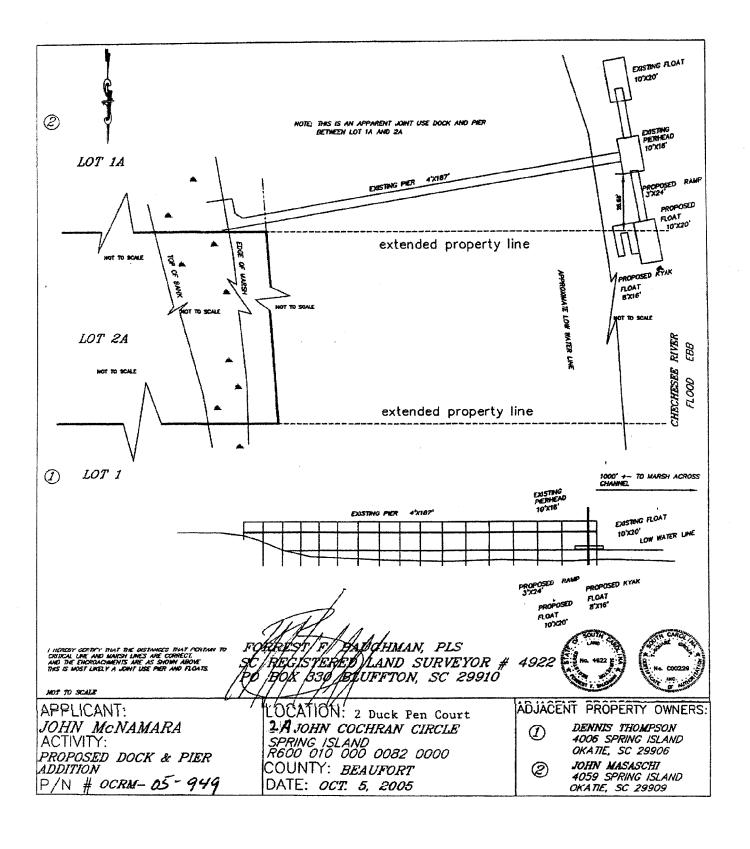
To assure review by OCRM, comments regarding this application must be received by OCRM on or before November 5, 2005.

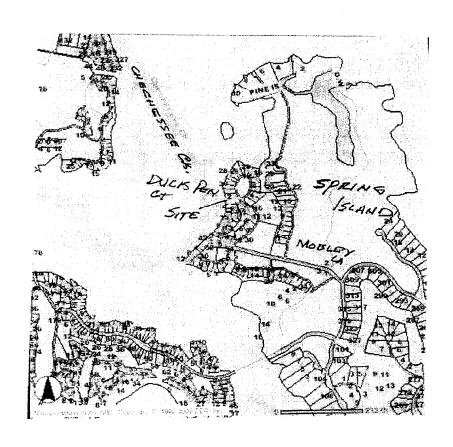
PLEASE REPLY TO:

SCDHEC OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT 104 Parker Drive Beaufort, South Carolina 29906

Please refer to P/N# OCRM-05-949

y" Browder, III, Regional Permit Administrator





F. BAUGHMAN, PLS ERED LAND SURVEYOR # 4922 |BLYFFTON, SC 2991Ö





NOT TO SCALE

APPLICANT: *JOHN McNAMARA* ACTIVITY: PROPOSED DOCK & PIER ADDITION P/N # OCRM- 05- 949 LOCATION:

39 JOHN COCHRAN CIRCLE SPRING ISLAND R600 010 000 0082 0000 COUNTY: BEAUFORT

DATE: OCT. 5, 2005

ADJACENT PROPERTY OWNERS:

DENNIS THOMPSON 4006 SPRING ISLAND OKATIE, SC 29906 **(/)**

JOHN MASASCHI 4059 SPRING ISLAND OKATIE, SC 29909

OCT 1 3 2005

DHEC-OCRM BEAUFORT-OFFICE



C. Earl Hunter, Commissioner Promoting and protecting the health of the public and the environment.

Notification of Public Notice

Notification of Public Notice

Enclosed are public notices issued by the SCDHEC Office of Ocean and Coastal Resource Management and the U.S. Army Corps of Engineers. All interested parties are allowed 30 days for major developments and 15 days for minor developments after receipt of the public notices to file written comments to the OCRM pertaining to the applications. Only those comments received within this period must be reviewed by the OCRM in processing the permit application. Any person wishing notification of the initial OCRM decision on any specific public notice must make written request within the designated review period for that public notice.

APPLICANT

PUBLIC NOTICE NUMBER

SUSPENSE DATE

Town of Kiawah Island

2005-1W-310-P

November 20, 2005

October 21, 2005

JOINT PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS 69A Hagood Avenue Charleston, South Carolina 29403-5107

Charleston, South Carolina 29403-5107 and the

S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT

1362 McMillan Avenue, Suite 400

1362 McMillan Avenue, Suite 400 Charleston, South Carolina 29405

REGULATORY DIVISION Refer to: P/N #2005-1W-310-P

10 OCTOBER 2005

Pursuant to Section 10 of the Rivers and Harbors Act of \$3.9 (2008, C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344), and the South Garolina Coastal Zone Management Act (48-39-10 et.seq.) an application has been submitted to be perartment of the Army and the S.C. Department of Health and Environmental Control by

TOWN OF KIAWAH ISLAND c/o COASTAL SCIENCE & ENGINEERING (CSE) ATTN.: DR. TIM KANA POST OFFICE BOX 8056 COLUMBIA, SOUTH CAROLINA 29202-8056

for a permit to perform excavation and place fill material in and adjacent to waters of the

ATLANTIC OCEAN

at locations along the shoreline of Kiawah Island in the area of The Ocean Course at Kiawah, (1000 Ocean Course Drive) and Iagoons between OCRM monuments 2740 and 2775 on Kiawah Island, Charleston County, South Carolina (Latitude 32.60941°, Longitude 80.00511°)

THS# 207-00-00-020

In order to give all interested parties an opportunity to express their views

NOTICE

is hereby given that written statements regarding the proposed work will be received by both of the above mentioned offices until

12 O'CLOCK NOON, MONDAY, 7 NOVEMBER 2005

from those interested in the activity and whose interests may be affected by the proposed work.

The proposed work consists of using land based equipment to excavate up to 1,000,000 cubic yards of beach sand from a washover area located at the eastern end of Kiawah Island near the Stono Inlet and transporting this material for distribution along 13,000 linear feet of shoreline to build a continuous beach and dune ridge between 600 and 1,000 feet landward of the excavation area. To the west of the excavation area, material will be placed along an eroding

Refer to: P/N #2005-1W-310-P 10 OCTOBER 2005

dune escarpment to restore the conditions to the 1999 profile. The project includes the excavation of a 50 foot wide flushing channel across the outer beach at the eastern end in the vicinity of OCRM monuments 2785 and 2790 and closing the existing flushing channel located in the vicinity of OCRM monument 2775. A temporary sand dike will be constructed for access to the excavation area and will be removed upon completion of the sand hauling portion of the project. The purpose of the project is to provide protection for lagoon B and to restore the beach along portions of the Ocean Course at Kiawah.

NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

U.S. Army Corps of Engineers
ATTN: REGULATORY DIVISION
69A Hagood Avenue
Charleston, South Carolina 29403-5107.

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The work shown on this application must also be certified as consistent with applicable provisions the Coastal Zone Management Program (15 CFR 930). The District Engineer will not process this application to a conclusion until such certifications are received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 275 acres of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

The District Engineer has consulted the most recently available information and has determined that the project is likely to adversely affect the loggerhead sea turtle, *Caretta caretta*, and/or is likely to adversely affect designated critical habitat of the piping plover, *Charadrius melodus*. This public notice serves as a request to the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service to initiate formal consultation on these species and/or critical habitat that may be present in the area which would be affected, pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended). A biological assessment (or other similar document) detailing our analysis of the effects of the action will be provided.

The District Engineer has consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. Consultation of the National Register constitutes the extent of cultural resource investigations by the District Engineer, and he is otherwise unaware of the presence of such resources. Presently unknown archaeological, scientific, prehistorical, or historical data may be lost or destroyed by the work to be accomplished under the requested permit.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

If there are any questions concerning this public notice, please contact me at 843-329-8044 or toll free at 1-866-329-8187.

Debra W. King Project Manager Regulatory Division

U.S. Army Corps of Engineers

Debra M. King

Bill Eiser Project Manager SCDHEC-OCRM

11. DESCRIPTION OF THE OVERALL PROJECT AND OF EACH ACTIVITY IN OR AFFECTING U.S. WATERS OR STATE CRITICAL AREAS

The proposed activity is a beach restoration and lagoon preservation project along the oceanfront of Kiawah Island, Charleston County, SC (see Sheet 1). Work will include excavation of up to 1,000,000 cubic yards (cy) of beach sand along a washover beach at the eastern end of Kiawah Island near Stono Inlet and transfer by trucks to downcoast areas. Fill placement will encompass ~13,000 linear feet (ft) of shoreline with the goal of building a continuous beach and dune ridge ~600–1,000 ft landward of the excavation area. Downcoast (west) of the excavation area, fill will be placed along an eroding dune escarpment to restore the eroded profile to approximate 1999 conditions (see Sheets 2 and 3).

The project will include excavation of an ~50-ft-wide (low tide) flushing channel across the outer (incipient) beach at the eastern end (vicinity of OCRM profiles 2785 and 2790) and closure of an existing flushing channel in the vicinity of OCRM profile 2775. The planned configuration of the shoreline upon project completion is shown on Sheet 4. The project is intended to provide protection for an incipient lagoon (B on Sheet 4) and restore the beach along portions of the Ocean Course to allow resumption of normal littoral transport (directed toward the west).

Construction will be via land-based equipment (eg, hydraulic hoes, pan earthmovers, dump trucks, and bulldozers) during winter months (ie, outside nesting seasons). Work will be sequenced to maintain flushing (channel "C") in incipient lagoons A and B (Sheet 4). A temporary sand dike will be placed approximately as shown on Sheet 2 so as to provide access to the excavation area. Upon completion of sand hauling to downcoast areas, the temporary dike will be removed so as to expand lagoon B to the west as shown in Sheets 2–4. The flushing channel (C) will be left unstabilized. Portions of lagoon B around its margins may be graded to approximate mean high water so as to promote natural growth of salt marsh vegetation after construction activities are complete.

The applicant desires to complete all work under one mobilization during the earliest environmental window. However, if circumstances do not allow completion in one season, the project would be accomplished over two or more seasons (environmental windows) with total excavation and fill volumes not to exceed ~1 million cubic yards.

Sheets 5–7 show representative excavation and fill sections in the project area along with beach profiles for 1999 and 2005. The proposed project is intended to restore the beach/dune system between OCRM 2740 and 2775 to ~1999 conditions and mitigate severe erosion that has occurred along the Ocean Course since then.

12. OVERALL PROJECT PURPOSE AND THE BASIC PURPOSE OF EACH ACTIVITY IN OR AFFECTING U.S. WATERS

The overall project is intended to mitigate cyclical, severe erosion; create a more stable beach and dune alignment; and conserve incipient lagoon habitat. The entire project area is a conservation zone with no permanent structures within ~500 ft of the oceanfront. The project will be paid for entirely with local funds. Kiawah Island is a private community. Public access to the project area is by boat or via land from Beachwalker County Park (pedestrian access only).

The primary goals of the project are:

- · Accelerate the natural shoal-bypassing cycle.
- · Create a shoreline planform that is more stable.
- Restore normal littoral transport to the west.
- Rebuild the beach along the Ocean Course and maintain a natural dune buffer between existing fairways and the beach.
- Create topography around the margins of lagoon B that will allow rapid propagation of salt marsh vegetation (similar to lagoon A).

History

The eastern end of Kiawah Island has experienced accelerated erosion along the Ocean Course approximately 1.5 miles west of Stono Inlet. During the past six years, erosion has cut back the dunes to a point landward of the 1983 shoreline, has breached a freshwater impoundment, and has threatened the practice range, 18th hole, and 16th fairway. At OCRM station 2775 (near the Ocean Course clubhouse), there has been 300 ft of dune recession since 1999. Some emergency dune scraping has already been implemented by the owner to protect access roads. If nothing is done, additional infrastructure and key parts of the Ocean Course will be lost to erosion in the next year.

The Ocean Course is eroding because of excess sand accumulated to the east. CSE (1999) documented a rapid buildup of the eastern end of Kiawah Island due to the process of *shoal bypassing. Since 1990, an estimated 5 million cubic yards have been added to the Kiawah shoreline. Shoal bypassing is a cyclic process and has been repeated numerous times since the 1940s (Gaudiano and Kana 2001). See Sheet 8. However, the scale of shoal bypassing at Kiawah Island in the 1990s has been greater than all previous episodes.

[*Shoal bypassing – the episodic release of sand from offshore shoals of an inlet and their subsequent onshore migration, attachment to the beach, and spreading alongshore (Sexton and Hayes 1982).]

Sheet 9 shows the eastern end of Kiawah Island in December 1998 and February 2005. Also indicated on one image is the approximate 1989 shoreline. An outer barrier beach formed as Shoal 1 and Shoal 2 merged and migrated shoreward. The new beach is over 2.5 miles long and encloses a lagoon which includes areas of incipient salt marsh (arrows).

Historical shorelines (approximate low watermark) are available for the period 1997 to 2004 (source: CSE and Town of Kiawah Island). Sheet 10 shows the evolution of the eastern end during the past seven years. In 1997, the island was in the early stage of shoal attachment. By 2004, the inlet shoal had fully attached to the beach at the eastern end but remained detached at its western end. This places the present shoal in Stage 2 of the shoal-bypass cycle along the Ocean Course (cf. Sheets 2 and 8).

Stage 1 represents the formative stages of the bypassing cycle with shoals emerging offshore and beginning to migrate shoreward. In Stage 2, the shoal has attached to the beach, possibly leaving at least one minor channel to maintain tidal flushing with the incipient lagoon in the lee of the shoal. Stage 3 represents complete attachment and lateral spreading of the shoal. Each shoal bypass introduces a new source of sand to the beach. However, during Stages 1 and 2, the shoreline receiving the shoal undergoes large-scale, rapid changes. In the lee of the shoal, sand accumulates because the shoal acts as an offshore breakwater. Outside the flanks of the shoal, sand is removed from the beach by waves altered by the presence of the shoal. This creates a zone of rapid accretion flanked by zones of erosion as illustrated on Sheet 8 (Stage 2). Shoal bypassing has created localized erosion problems for development on other islands such as Isle of Palms. These problems have been mitigated by sand scraping and other means.

In Kiawah's present case, the scale and period over which each stage of the cycle will last is uncertain. Gaudiano and Kana (2001) found that the time between previous shoal-bypass events for the eastern end of Kiawah Island ranged from four to ten years (mean 7.6 years). However, these earlier events (cf, Sheet 8) were much smaller and involved shoals containing ~1 million cubic yards. In the present event, much more sand (estimated 5 million cubic yards) is involved. The duration of the shoal-bypass cycle is directly proportional to the volume of sand in the shoal. This suggests that severe erosion is likely to persist along the Ocean Course for at least 5–10 more years if nothing is done to accelerate or alter the shoal bypass cycle and restore normal sand transport to the rest of the island.

Alternatives Considered – Four alternatives were considered for addressing erosion along the Ocean Course:

- Do nothing.
- · Relocation of facilities.
- Annual sand scraping by land-based equipment to keep pace with erosion in critical areas.
- Larger scale shoal manipulation, sand scraping, and channel realignment to produce Stage 3 of the shoal-bypass cycle.

The last alternative is the chosen plan by the applicant because it most closely matches the expected outcome if natural processes are allowed to occur. Over the next 50 years, the eastern end of Kiawah Island is expected to continue growing seaward. However, localized erosion along the Ocean Course will likely get worse before the area rebuilds naturally. With major golf tournaments scheduled in the next 5 years, the applicant wishes to avoid further damages to the Ocean Course while expanding the conservation zone to the east.

The chosen plan involves large-scale manipulation of the shoal, combined with sand scraping to restore impacted areas. The prime objective of the planned activity is to straighten the shoreline and accelerate downcoast sand transport. This could be accomplished faster by way of strategic manipulation of the shoal. A straighter shoreline between the shoal and the Ocean Course is the goal and is what nature will produce in time, after about ten years. Natural processes are pushing the shoal landward and downcoast. The project will accelerate the natural process.

Approximately 60–70 percent of the excavation volume (ie, ~600,000 cy) will be transported downcoast and placed between OCRM stations 2740 and 2775 (Sheets 2–3). The balance will be excavated and moved landward to create a more stable shoreline and dune alignment (Sheet 4).

REFERENCES

- CSE. 1999. Updated shoreline assessment and condition of the beach, Kiawah Island, South Carolina. Final Report for Town of Kiawah Island; Coastal Science & Engineering, Columbia, South Carolina, 81 pp + appendices.
- Gaudiano, DJ, and TW Kana. 2001. Shoal bypassing in South Carolina tidal inlets: geomorphic variables and empirical predictions for nine mesotidal inlets. Jour Coastal Research, Vol 17, pp 280-291.
- Sexton, W.J., and M.O. Hayes. 1983. Natural bar bypassing of sand at a tidal inlet. In Proc. Coastal Engineering '82, ASCE, New York, N.Y., pp. 1479-1495.
- Williams, ML, and TW Kana. 1987. Inlet shoal attachment and erosion at Isle of Palms, South Carolina: a replay. In Proc Coastal Sediments '87, ASCE, New York, NY, pp 1174-1187.

13. TYPE AND QUANTITY OF MATERIALS TO BE DISCHARGED

All excavations will involve beach-quality sand similar in texture to the native beach. The excavation area is a high-energy ocean beach that formed within the last five years. Prior to 1990, the excavation area was open water having depth of 10 ft or greater. The excavation area formed as an offshore sand bar emerged from the ebb-tidal delta of Stono Inlet, then migrated and attached to Kiawah Island. The excavation area is low lying and subject to frequent washovers. The proposed project will re-establish a more stable beach line in a landward alignment (cf, Sheet 2).

Some silt [grains <0.0625 millimeters (mm)] is known to be present in minor quantities along the native beach. The applicant estimates that such material constitutes no more than 2 percent by volume of the material in the excavation area. Accordingly, up to ~20,000 cy of silt-sized sediment may be excavated and transferred to downdrift fill areas. No clay-sized material is believed to reside in the excavation area above the 10-ft depth contour, given the mode of formation of the deposit.

Construction will be performed "in the dry" – further reducing the transfer of fine-grained material (defined as grain sizes <0.0625 mm).

Incipient lagoon B has accumulated small quantities of mud in surficial layers typically <1 inch thick. The existing lagoon is shrinking because of washovers into it (cf, Sheet 10). Several acres of incipient marsh have formed in the vicinity of proposed flushing channel C. The proposed activity is expected to directly impact no more than 1 acre of incipient marsh in lagoon B. Upon completion of the project, lagoon B is expected to become a marsh-dominated lagoon similar to lagoon A (Sheet 4). Mud will then enter the lagoons in suspension via the flushing channel and will accumulate on the sandy substrate, enhancing ~100 acres of lowenergy estuarine habitat.

14. TYPE AND QUANTITY OF IMPACTS TO U.S. WATERS (INCLUDING WETLANDS)

The project area is situated seaward of the 1989 foredune of eastern Kiawah Island. The excavation area and lagoon B were high-energy subtidal habitat in 1990. The entire project area has evolved rapidly and will continue to be transformed as the new outer beach (proposed excavation area) washes into lagoon B. [Note: The proposed project is designed to speed up this process while mitigating downdrift erosion.]

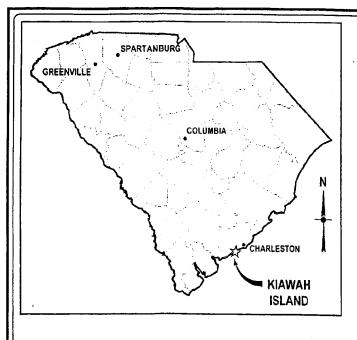
Natural changes since 1990 have converted nearly 400 acres of high-energy ocean shoreline into a barrier beach/lagoon system. The northeastern barrier/lagoon A has equilibrated, whereas barrier/lagoon B is still evolving. Open water and exposed sandy flats in lagoon B are expected to be converted to salt marsh and narrow tidal channels (similar to lagoon A) after the project.

The project will involve excavation of ~100 acres of washover beach which formed within the past 5 years. Up to 175 acres of intertidal beach and unvegetated sandy lagoon substrate will be filled. Construction activities may impact ~1 acre of incipient marsh in the vicinity of proposed flushing channel C. No work will be performed east of line X–Y shown on Sheet 4.

The new flushing channel (C) will remain open for upward of a decade, then close naturally, leaving lagoons A and B fully enclosed by the outer beach. When that happens, the lagoons will become brackish to freshwater impoundments. The salt marsh in the lagoons will be replaced naturally by freshwater species.

Previous shoal-bypassing events have created impoundments around the eastern end of Kiawah Island. The proposed project is intended to produce conditions that will leave up to 200 acres of freshwater ponds (lagoons A and B).

During construction, there will be localized increases in turbidity due to excavation and filling activities. However, given the lack of clay-sized material in the sediments, turbidity levels will return to normal in minutes to hours (based on settling velocities of silt). Over 98 percent of the material to be moved is in the sand-size range.



DIRECTIONS FROM SC HWY 17:

Take Highway 17 south from Charleston to Main Road (~8 miles). Turn left, go ~20 miles to Kiawah Island Parkway. (Main Road becomes Bohicket Road on Johns Island.) At the new traffic circle, take Kiawah Island Parkway to main gate. Proceed through gate on Kiawah Island Parkway ~2.5 miles. Turn right onto Governors Drive and proceed ~4 miles to merge with Ocean Course Drive. Proceed on Ocean Course Drive to clubhouse entrance. Project is along the oceanfront, extending east and west from the Ocean Course Club House.

SCALE:

DATE:

2005-IW-310-P

Sheet 1 of 13

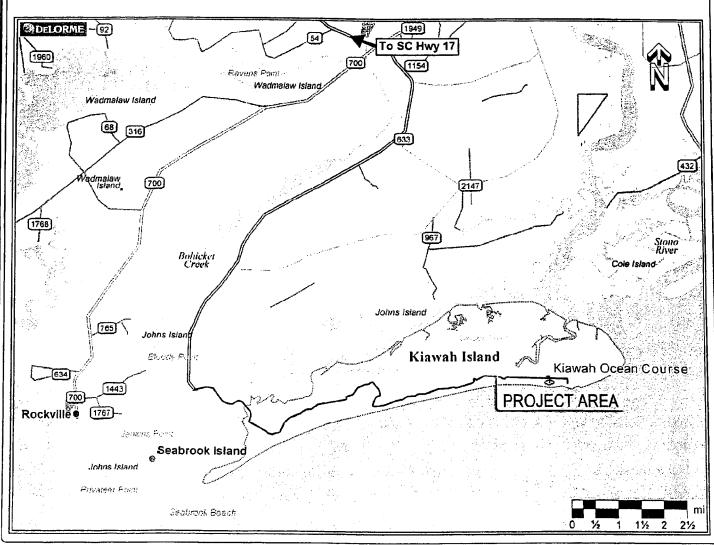
VICINITY MAP

SHEET #

01

AS SHOWN

SEPT 2005



PREPARED FOR:

21 BEACHWALKER DRIVE

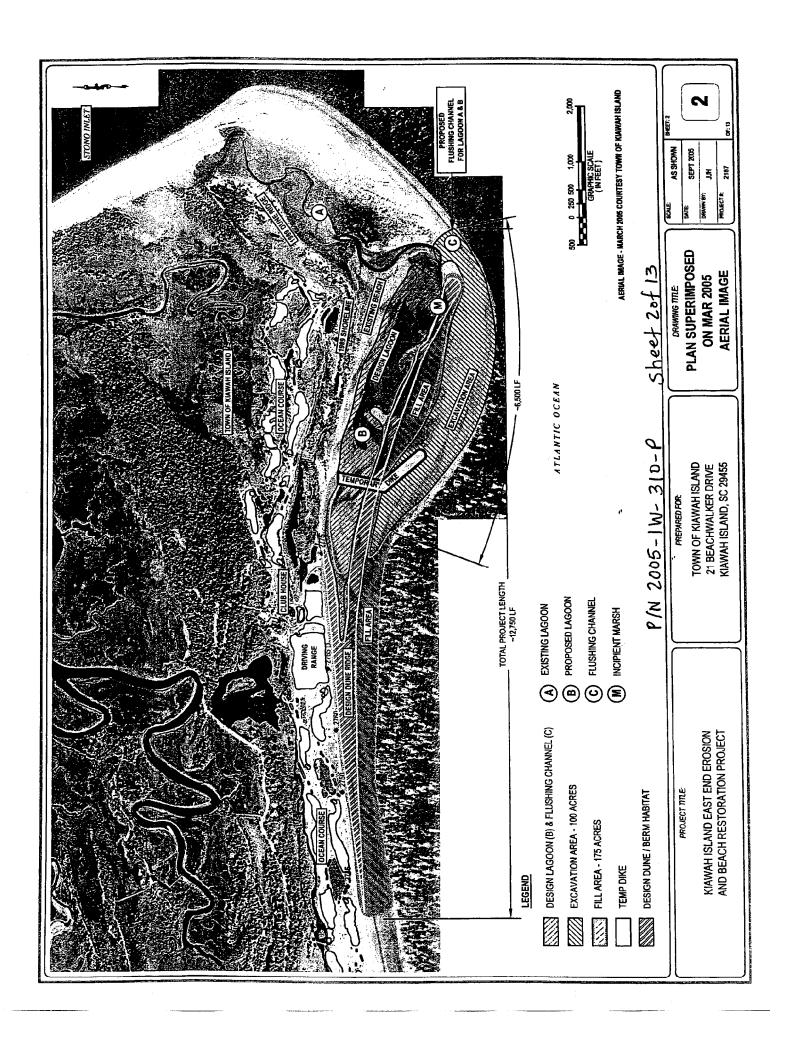
KIAWAH ISLAND, SC 29455

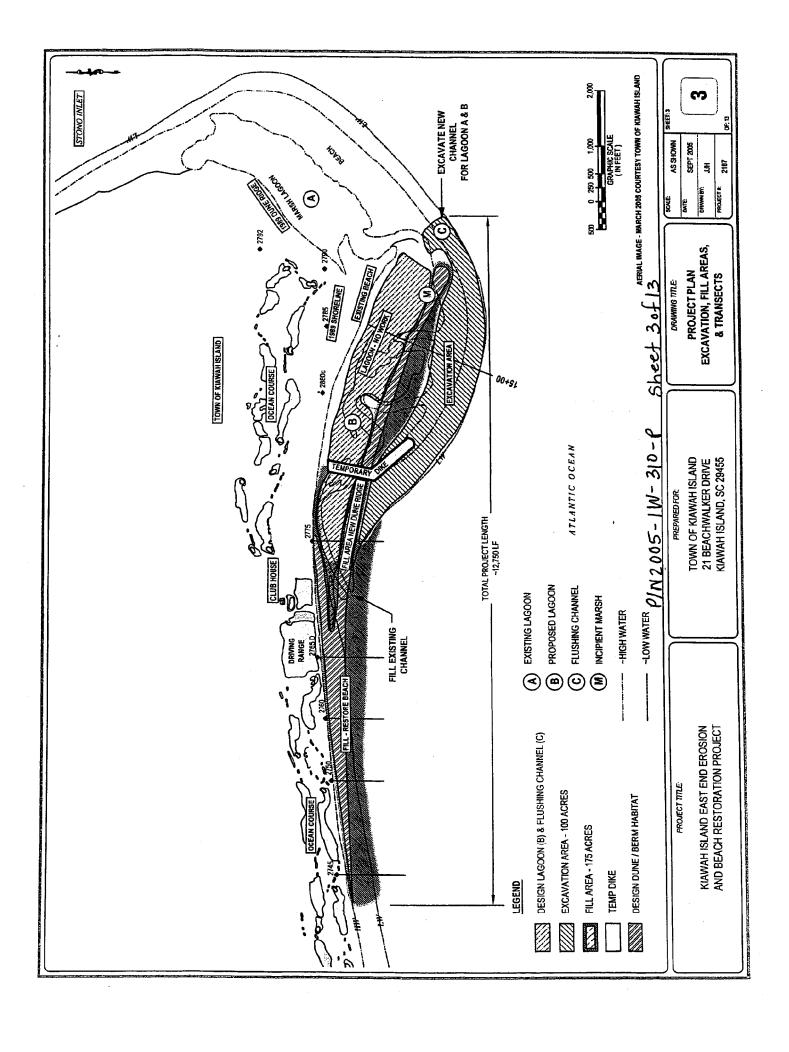
TOWN OF KIAWAH ISLAND

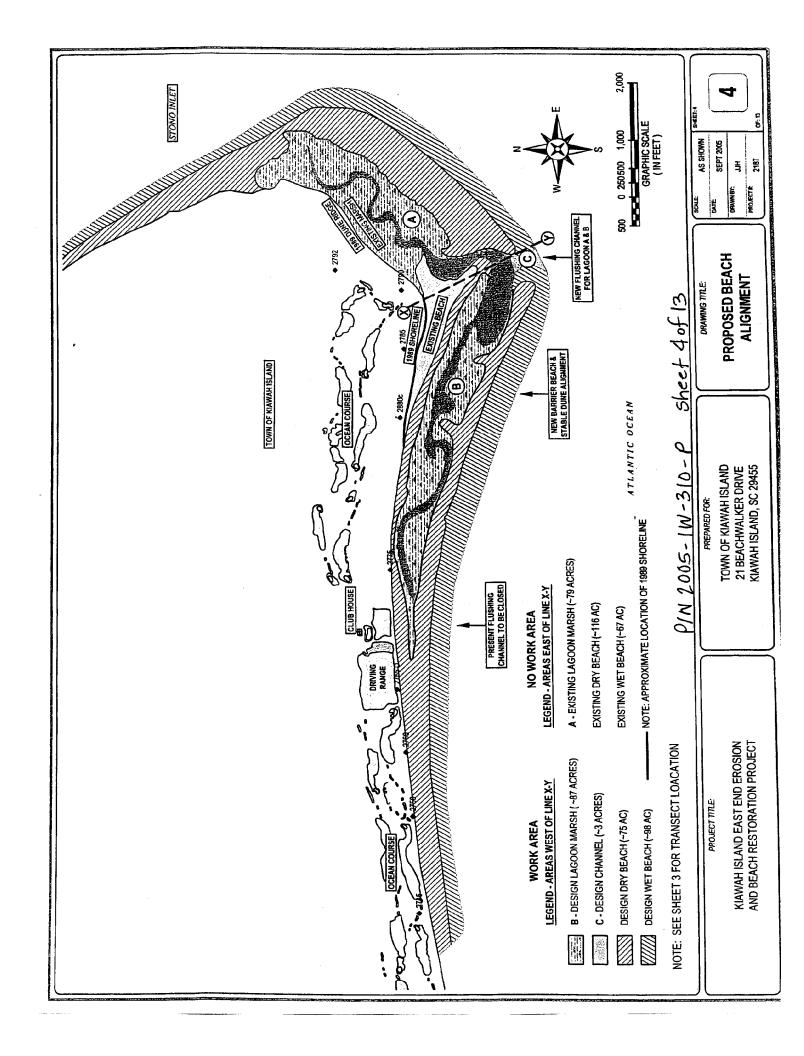
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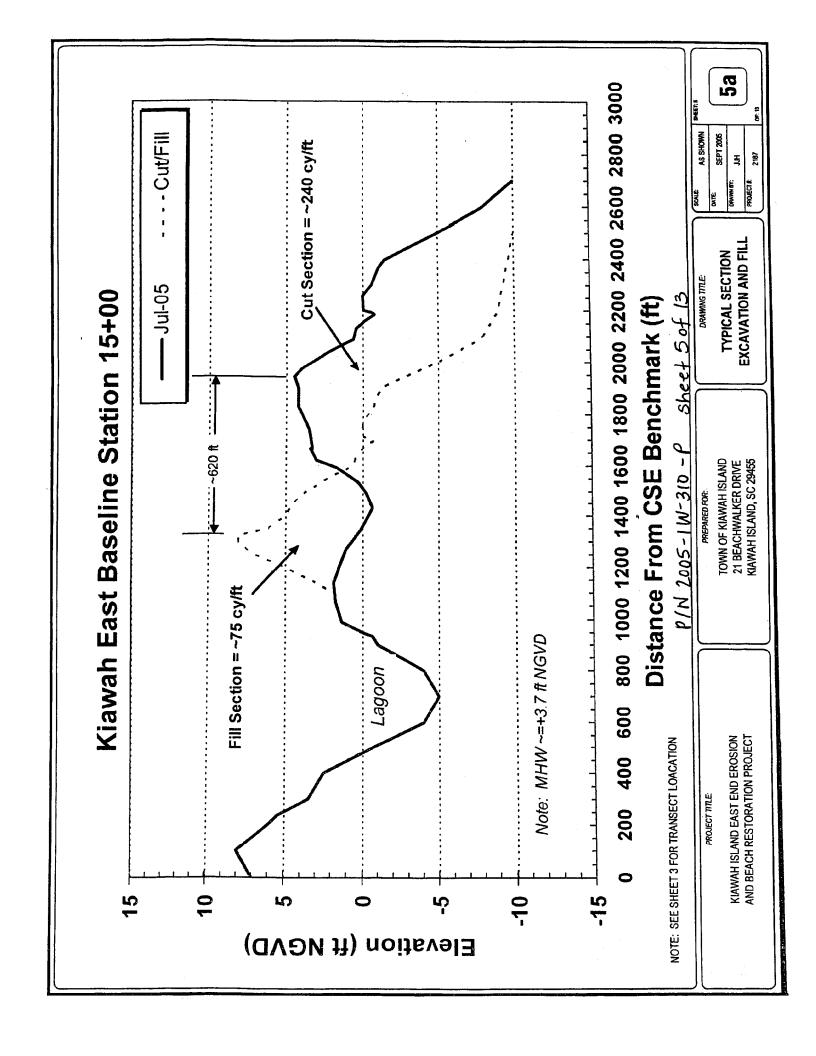
KIAWAH ISLAND EAST END EROSION

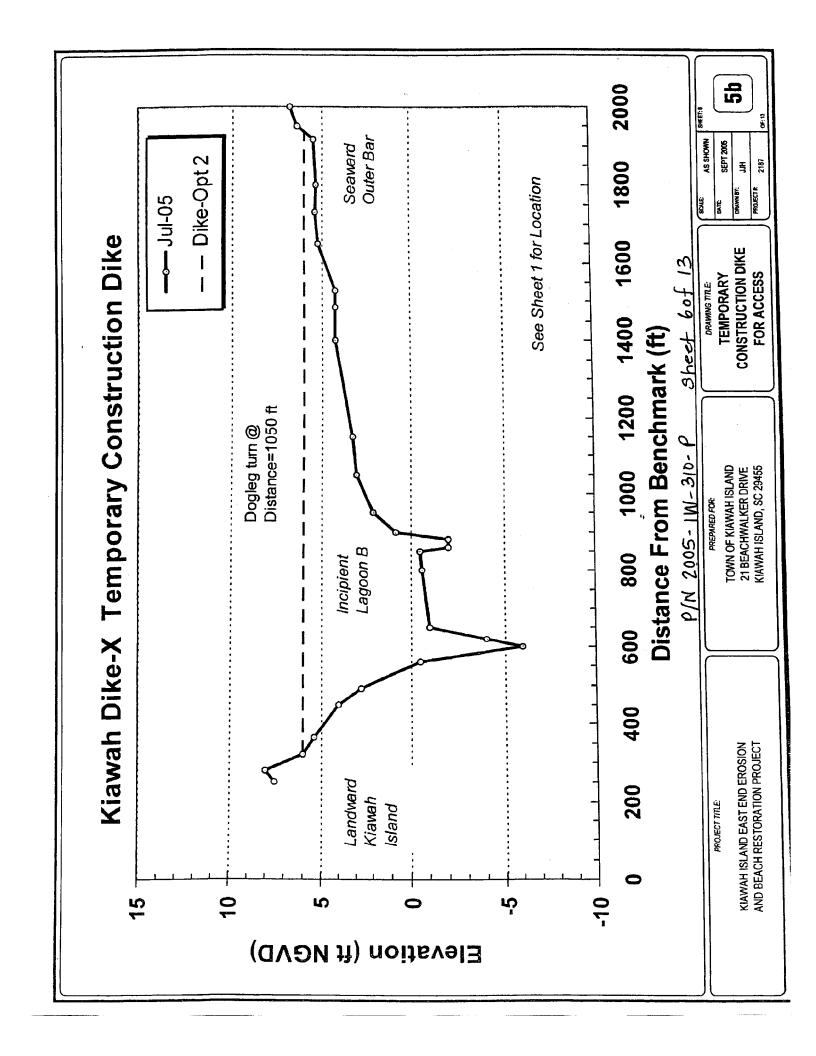
AND BEACH RESTORATION PROJECT

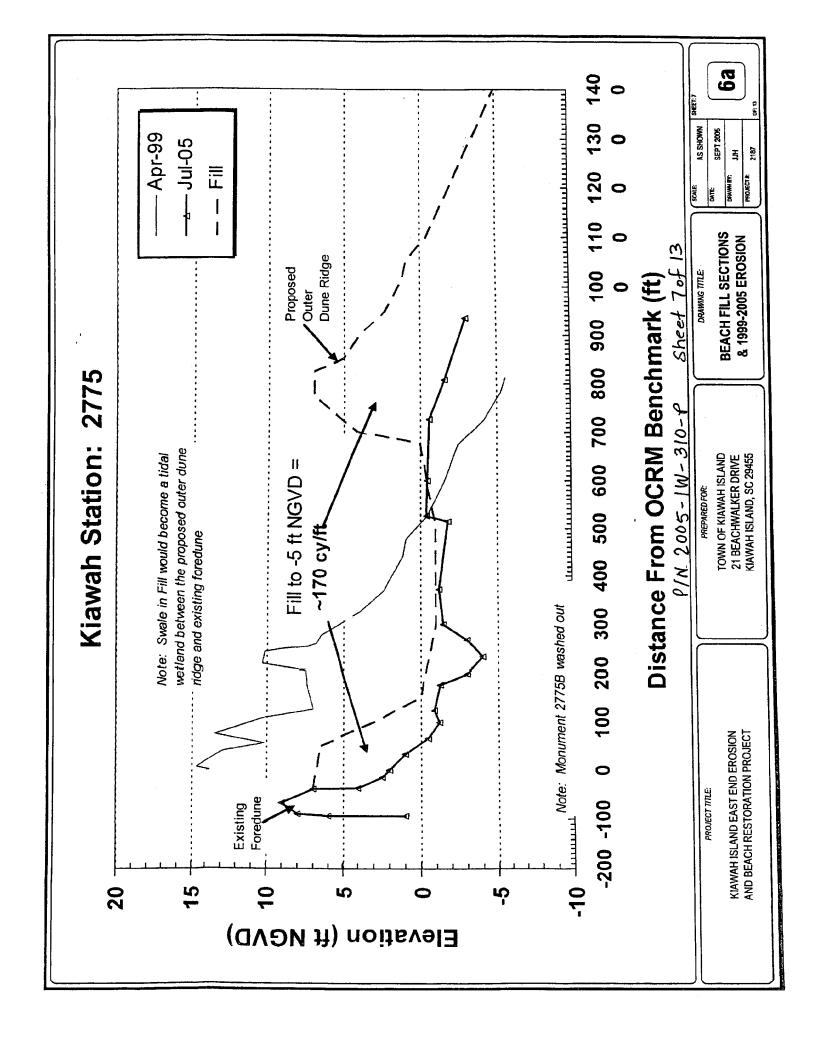


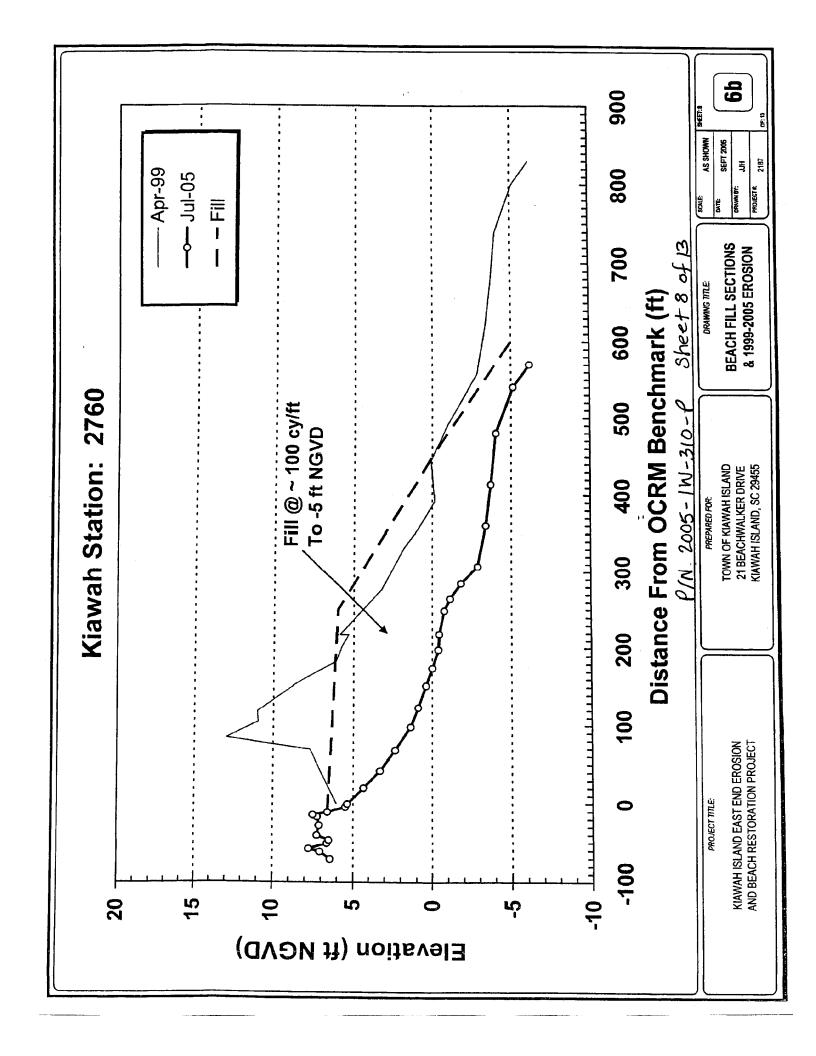


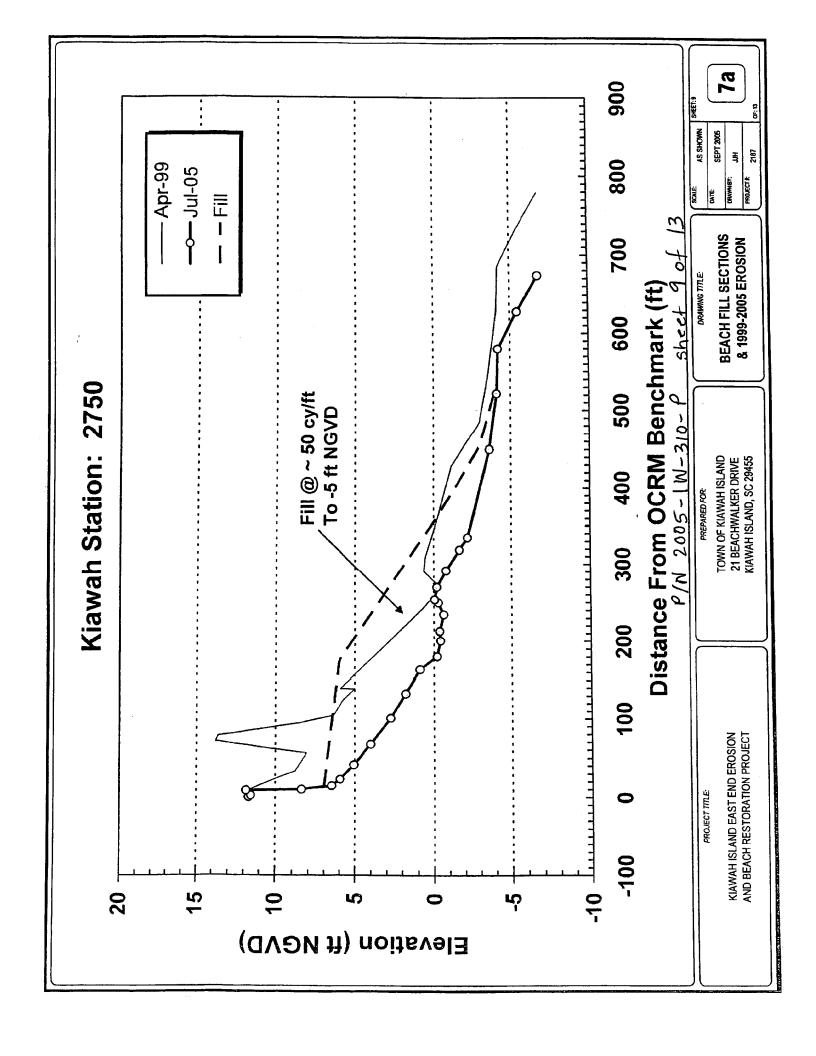


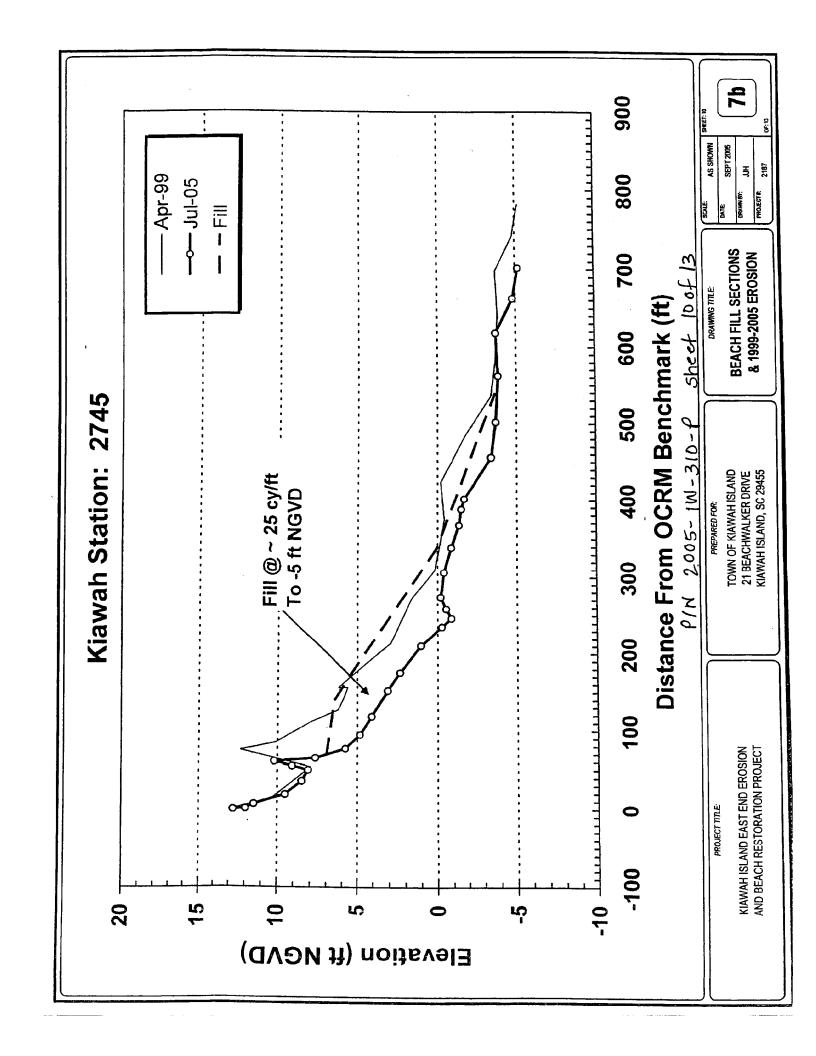














Shoal bypass cycles at Kiawah 1977-1986 account for seaward growth and formation of new interior wetlands (from CSE 1999).

KW-11R STAGE 1 STAGE 2 TTT MIGRATION KW-10R ACCRETION ACCRETION ZONE --- FUTURE SHORELINE --- PUTURE SHORELINE SAND MOVEMENT EROSION KW-9R

period of maximum erosion along the flanks of the accreting shoal. Shoal-bypass stages (from Williams and Kana 1986) - Kiawah's east end near the Ocean Course is presently in Stage 2 - the

STAGE 3

PIN 2005-IW-310-P Sheet 110f 13

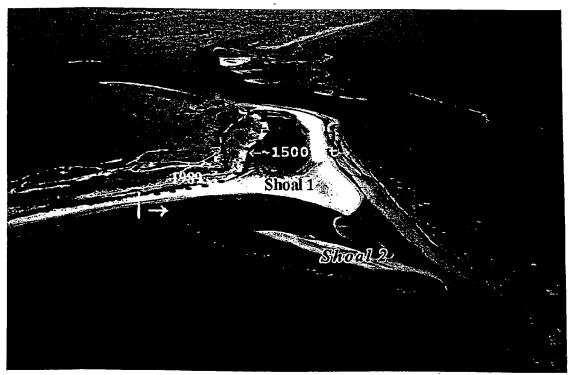
PROJECT TITLE:

KIAWAH ISLAND EAST END EROSION AND BEACH RESTORATION PROJECT

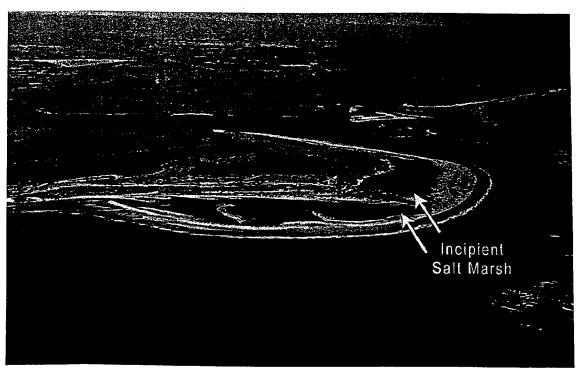
TOWN OF KIAWAH ISLAND 21 BEACHWALKER DRIVE KIAWAH ISLAND, SC 29455 PREPARED FOR:

BYPASSING CYCLES INLET SHOAL DRAWING TITLE:

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AS SHOWN	SEPT 2005	哥	7407
SOME	DATE:	DRAWN BY:	PROJECT &



DECEMBER 1998



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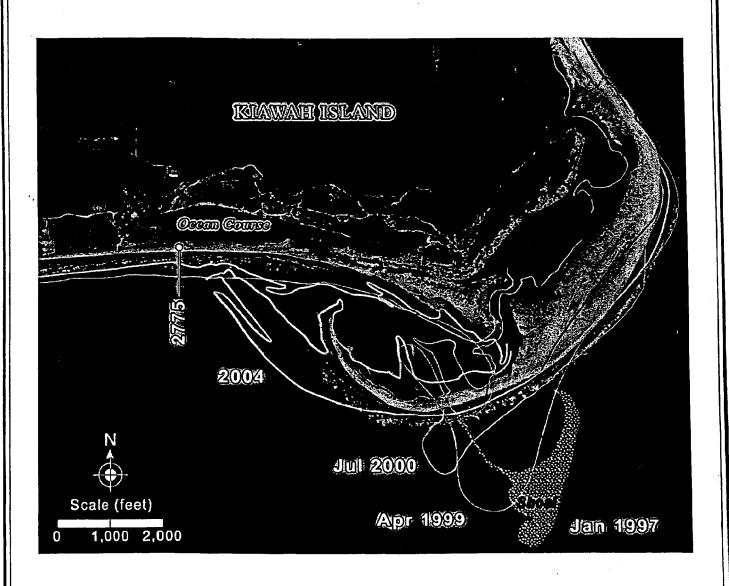
PROJECT TITLE:

KIAWAH ISLAND EAST END EROSION AND BEACH RESTORATION PROJECT

PREPARED FOR:

TOWN OF KIAWAH ISLAND 21 BEACHWALKER DRIVE KIAWAH ISLAND, SC 29455 P/N 2005-1W-310-P EAST END CHANGES 1998-2005 Sheet 12 0 f 13

SCALE:	AS SHOWN	SHEET: 12
DATE:	SEPT 2005	
DRAWN BY:	TIH	9
PROJECT J:	2187	OF: 13



P/N 2005-IW-310-P sheet 13 of 13

PROJECT TITLE:

KIAWAH ISLAND EAST END EROSION AND BEACH RESTORATION PROJECT PREPARED FOR:

TOWN OF KIAWAH ISLAND 21 BEACHWALKER DRIVE KIAWAH ISLAND, SC 29455 DRAWING TITLE

EAST END HISTORICAL SHORELINE CHANGES 1997-2004

SCALE:	AS SHOWN	SHEET: 13
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